



DOCKET NO.: I0168.70061US00

THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: John W. Arba et al.  
Serial No: 09/954,986  
Confirmation. No.: 7682  
Filed: September 18, 2001  
For: ELECTRODEIONIZATION DEVICE AND METHODS OF USE

Examiner: Frank M. Lawrence, Jr.  
Art Unit: 1724

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Commissioner For Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**REQUEST TO CORRECT INVENTORSHIP UNDER 37 C.F.R. §1.48(a)**

Sir:

This is a request under 37 C.F.R. §1.48(a) to add inventors Joseph D. Gifford and Devendra Atnoor in the above-identified application. Pursuant to 37 C.F.R. §1.48(a), accompanying this request are: (1) a statement from Joseph D. Gifford that the error in inventorship occurred without deceptive intention on his part; (2) a statement from Devendra Atnoor that the error in inventorship occurred without deceptive intention on his part; (3) a new declaration executed by each of the actual inventors; and (4) the written consent of the assignee of the application and an accompanying certification under 37 C.F.R. §3.73(b), along with copies of assignments from the newly added inventors to the assignee.

Please charge the fee of \$130.00 as set forth in 37 C.F.R. §1.17(i) to Deposit Account No. 50/0214.

05/24/2004 JBALINAN 00000045 500214 09954986

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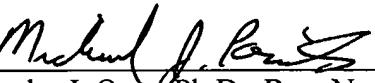
*Express Mail Certificate Number: EV 292463166 US  
Date of Deposit: May 20, 2004*

Serial No.: 09/954,986  
Docket No.: I0168.70061US00  
Page 2 of 2

Confirmation No.: 7682

If the amount is insufficient, the balance may be charged to Deposit Account No.  
50/0214. Favorable consideration is requested.

Respectfully submitted,

By:   
Timothy J. Oyer, Ph.D., Reg. No.: 36,628  
Michael J. Pomianek, Ph.D., Reg. No.: 46,190  
Wolf, Greenfield & Sacks, P.C.  
600 Atlantic Avenue  
Boston, Massachusetts 02210-2211

Date: May 20, 2004  
**x06/02/2004x**  
789543



DOCKET NO: I0168.70061US00

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: John W. Arba et al.  
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Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**WRITTEN CONSENT OF ASSIGNEE PURSUANT TO 37 C.F.R. §1.48(a)(5)**

Sir:

United States Filter Corporation, assignee of the above-identified U.S. Application, as indicated on the attached Statement under 37 C.F.R. § 3.73(b), hereby gives its written consent to add inventors Joseph D. Gifford and Devendra Atnoor in the above-identified application pursuant to the accompanying request to correct inventorship under 37 C.F.R. § 1.48(a).

Respectfully submitted,

By: JoAnn M. Sherman  
JoAnn M. Sherman  
Attorney-in-Fact for Stephen P. Stanczak,  
Executive Vice President and Secretary  
United States Filter Corporation  
75 Technology Drive  
Lowell, Massachusetts 01851  
Date: May 13, 2004

xNDD  
788155

Express Mail Certificate Number: EV 292463166 US  
Date of Deposit: May 20, 2004



### CERTIFICATE UNDER 37 CFR 3.73(b)

Applicant:	John W. Arba et al.	
Application No.:	09/954,986	Filed: September 18, 2001
Confirmation No.:	7682	
Entitled:	ELECTRODEIONIZATION DEVICE AND METHODS OF USE	
United States Filter Corporation, a Delaware Corporation		

(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

certifies that it is the assignee of the entire right, in the patent application identified above by virtue of either:

- A.  An assignment from the originally named inventors of the patent application identified above. The assignment was recorded in the Patent and Trademark Office at Reel 013832, Frame 0214, or for which a copy thereof is attached

AND

- B.  A chain of title from the newly added inventors, of the patent application identified above, to the current assignee as shown below:

1. From: Joseph D. Gifford	To: United States Filter Corporation
The document was recorded in the Patent and Trademark Office at	
Reel _____	Frame _____, or for which a copy thereof is attached.
2. From: Devendra Atnoor	To: United States Filter Corporation
The document was recorded in the Patent and Trademark Office at	
Reel _____	Frame _____, or for which a copy thereof is attached.

- Copies of assignments or other documents in the chain of title are attached.

The undersigned (whose title is supplied below) is empowered to sign this certificate on behalf of the assignee.

May 7, 2004

Date

JoAnn M. Sherman

Signature

JoAnn M. Sherman

Typed or Printed Name

Attorney-in-Fact for Stephen P. Stanczak, Executive Vice President and Secretary, United States Filter Corporation

788156

Title



DOCKET NO: I0168.70061US00

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: John W. Arba et al.  
Serial No: 09/954,986  
Confirmation No: 7682  
Filed: September 18, 2001  
For: ELECTRODEIONIZATION DEVICE AND METHODS OF USE  
  
Examiner: Frank M. Lawrence, Jr.  
Art Unit: 1724

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Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**STATEMENT OF JOSEPH D. GIFFORD PURSUANT TO 37 C.F.R. §1.48(a)(2)**

Sir:

I have reviewed the above-referenced U.S. patent application and understand the subject matter claimed therein. The above-referenced application includes claims to subject matter for which I am an inventor. I was not, erroneously, named as a co-inventor in the initially executed Declarations for Patent Application for the above-referenced application mailed to the U.S. Patent and Trademark Office on December 11, 2001. The inventorship for the application has been corrected to name me as co-inventor. The inventorship error occurred without any deceptive intention on my part.

Respectfully submitted,

By: 

Joseph D. Gifford  
8 MacIntosh Avenue  
Marlborough, Massachusetts 01752

Date: May 1, 2004  
xNDD

*Express Mail Certificate Number: EV 292463166 US  
Date of Deposit: May 20, 2004*



DOCKET NO: I0168.70061US00

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: John W. Arba et al.  
Serial No: 09/954,986  
Confirmation No: 7682  
Filed: September 18, 2001  
For: ELECTRODEIONIZATION DEVICE AND METHODS OF  
USE

Examiner: Frank M. Lawrence, Jr.  
Art Unit: 1724

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Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**STATEMENT OF DEVENDRA ATNOOR PURSUANT TO 37 C.F.R. §1.48(a)(2)**

Sir:

I have reviewed the above-referenced U.S. patent application and understand the subject matter claimed therein. The above-referenced application includes claims to subject matter for which I am an inventor. I was not, erroneously, named as a co-inventor in the initially executed Declarations for Patent Application for the above-referenced application mailed to the U.S. Patent and Trademark Office on December 11, 2001. The inventorship for the application has been corrected to name me as co-inventor. The inventorship error occurred without any deceptive intention on my part.

Respectfully submitted,

By:   
Devendra Atnoor  
725 Main Street  
Woburn, Massachusetts 01801

Date: April 26, 2004  
xNDD  
788253



DOCKET NO. I0168.70061US00

## **DECLARATION FOR PATENT APPLICATION**

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe the named inventor(s) to be the original and first inventor(s) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

# ELECTRODEIONIZATION DEVICE AND METHODS OF USE

the specification of which:

- is attached hereto;
  - was filed on September 18, 2001, as Application No. 09/954,986, Confirmation No. 7682, bearing attorney docket No. I0168.70061US00.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56.

I hereby claim the benefit under Title 35, United States Code, §119(e) of any United States provisional application(s) listed below:

60/236,276 September 28, 2000  
(Application Number) (filing date)

The undersigned hereby appoints the following attorney(s) and/or agent(s) to prosecute this application and all related divisional, continuing, substitute, renewal, reissue, re-exam, and to conduct all business in the Patent and Trademark Office connected therewith:

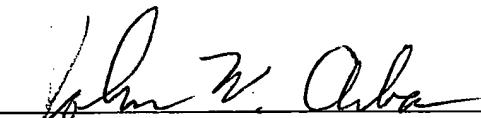
#### Practitioners at Customer Number:

23628

Direct all correspondence to the above-mentioned customer number

Address all telephone calls to Timothy J. Over, Ph.D., at telephone no. (617) 720-3500.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

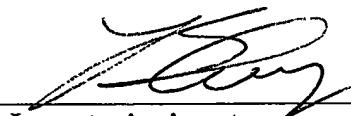


5/12/04

Date

Inventor's signature

Full name of first joint inventor: John W. Arba  
Citizenship: United States of America  
Residence: 111 Kingsbury Avenue  
Bradford, Massachusetts 01835



5/12/04

Date

Inventor's signature

Full name of second joint inventor: Li-Shiang Liang  
Citizenship: United States of America  
Residence: 258 Bolton Road  
Harvard, Massachusetts 01451

Inventor's signature

Date

Full name of third joint inventor: Paul Springthorpe  
Citizenship: United Kingdom  
Residence: Hillrise 49 High Street  
Flore, Northampton, NN74LL  
United Kingdom



Inventor's signature

5/12/04

Date

Full name of fourth joint inventor: Joseph D. Gifford  
Citizenship: United States of America  
Residence: 8 MacIntosh Avenue  
Marlborough, Massachusetts 01752

---

Inventor's signature	Date
Full name of fifth joint inventor:	Devendra Atnoor
Citizenship:	India
Residence:	725 Main Street Woburn, Massachusetts 01801

787832



DOCKET NO. I0168.70061US00

## DECLARATION FOR PATENT APPLICATION

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe the named inventor(s) to be the original and first inventor(s) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

### ELECTRODEIONIZATION DEVICE AND METHODS OF USE

the specification of which:

- is attached hereto;
- was filed on September 18, 2001, as Application No. 09/954,986, Confirmation No. 7682, bearing attorney docket No. I0168.70061US00.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

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Practitioners at Customer Number:

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Address all telephone calls to Timothy J. Oyer, Ph.D. at telephone no. (617) 720-3500.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

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**Inventor's signature** \_\_\_\_\_ Date \_\_\_\_\_

Full name of first joint inventor: John W. Arba  
Citizenship: United States of America  
Residence: 111 Kingsbury Avenue  
Bradford, Massachusetts 01835

---

**Inventor's signature** \_\_\_\_\_ Date \_\_\_\_\_

Full name of second joint inventor: Li-Shiang Liang  
Citizenship: United States of America  
Residence: 258 Bolton Road  
Harvard, Massachusetts 01451

---

**Inventor's signature** \_\_\_\_\_ Date \_\_\_\_\_

Full name of third joint inventor: Paul Springthorpe  
Citizenship: United Kingdom  
Residence: Hillrise 49 High Street  
Flore, Northampton, NN74LL  
United Kingdom

---

**Inventor's signature** \_\_\_\_\_ Date \_\_\_\_\_

Full name of fourth joint inventor: Joseph D. Gifford  
Citizenship: United States of America  
Residence: 8 MacIntosh Avenue  
Marlborough, Massachusetts 01752

Inventor's signature



5/12/04

Date

Full name of fifth joint inventor: Devendra Atnoor  
Citizenship: India  
Residence: 725 Main Street  
Woburn, Massachusetts 01801

787832



DOCKET NO. 10168.70061US00

### DECLARATION FOR PATENT APPLICATION

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe the named inventor(s) to be the original and first inventor(s) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

### ELECTRODEIONIZATION DEVICE AND METHODS OF USE

the specification of which:

[ ] is attached hereto;

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(Application Number)

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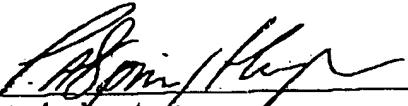
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Inventor's signature Date

Full name of first joint inventor: John W. Arba  
Citizenship: United States of America  
Residence: 111 Kingsbury Avenue  
Bradford, Massachusetts 01835

Inventor's signature Date

Full name of second joint inventor: Li-Shiang Liang  
Citizenship: United States of America  
Residence: 258 Bolton Road  
Harvard, Massachusetts 01451

  
Inventor's signature

13/5/04

Date

Full name of third joint inventor:

Citizenship: United Kingdom  
Residence: Hillrise 49 High Street  
Flore, Northampton, NN74LL  
United Kingdom

Inventor's signature

Date

Full name of fourth joint inventor:

Citizenship: Joseph D. Gifford  
Residence: United States of America  
8 MacIntosh Avenue  
Marlborough, Massachusetts 01752

Inventor's signature	Date
Full name of fifth joint inventor:	Devendra Atnoor
Citizenship:	India
Residence:	725 Main Street Woburn, Massachusetts 01801

787832

## ASSIGNMENT

For good and valuable consideration, the sufficiency of which is hereby acknowledged, we, the undersigned, Joseph D. Gifford, 8 MacIntosh Avenue, Marlborough, Massachusetts 01752 and Devendra Atnoor, 725 Main Street, Woburn, Massachusetts 01801; hereby:

Sell, assign and transfer to United States Filter Corporation, a Delaware corporation having a place of business at 40-004 Cook Street, Palm Desert, California 92211, its successors, assigns and legal representatives, all hereinafter referred to as the Assignee, the entire right, title and interest for the United States and all foreign countries, in and to any and all inventions which are disclosed in the application for United States Letters Patent filed in the United States Patent and Trademark Office, bearing attorney docket number I0168.70061US00, on September 18, 2001 under Serial No. 09/954,986 and entitled **ELECTRODEIONIZATION DEVICE AND METHODS OF USE**, and in and to said application and all divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said inventions; and in and to all original and reissued patents which have been or shall be issued in the United States and all foreign countries on said inventions including the right to apply for patent rights in each foreign country and all rights to priority;

Agree that said Assignee may apply for and receive Letters Patent for said inventions in its own name; and when requested, without charge to but at the expense of said Assignee, we agree to carry out in good faith the intent and purpose of this assignment, by executing all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said inventions, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to said Assignee all facts known to us relating to said inventions and the history thereof, and generally by doing everything reasonably possible which said Assignee shall consider desirable for aiding in securing and maintaining proper patent protection for said inventions and for vesting title to said inventions and all applications for patents and all patents on said inventions, in said Assignee;

Request the Honorable Commissioner of Patents and Trademarks to issue said Letters Patent to said Assignee; and

Covenant with said Assignee that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by us and that full right to convey the same as herein expressed is possessed by us/me.

---

Date

Joseph D. Gifford

STATE OF \_\_\_\_\_:  
COUNTY OF \_\_\_\_\_:

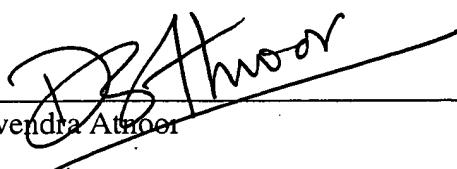
Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_.

SEAL

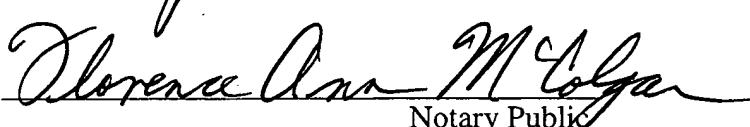
\_\_\_\_\_  
Notary Public

My Commission Expires \_\_\_\_\_

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DateApril 26, 2004\_\_\_\_\_  
Devendra AthoorSTATE OF MA:  
COUNTY OF Middlesex:Subscribed and sworn to before me this 26 day of April 2004.

SEAL

\_\_\_\_\_  
Notary Public

My Commission Expires \_\_\_\_\_

3/29/2007

## ASSIGNMENT

For good and valuable consideration, the sufficiency of which is hereby acknowledged, we, the undersigned, Joseph D. Gifford, 8 MacIntosh Avenue, Marlborough, Massachusetts 01752 and Devendra Atnoor, 725 Main Street, Woburn, Massachusetts 01801; hereby:

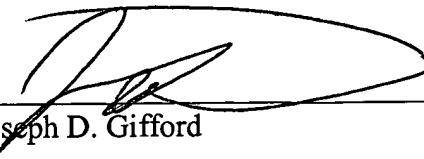
Sell, assign and transfer to United States Filter Corporation, a Delaware corporation having a place of business at 40-004 Cook Street, Palm Desert, California 92211, its successors, assigns and legal representatives, all hereinafter referred to as the Assignee, the entire right, title and interest for the United States and all foreign countries, in and to any and all inventions which are disclosed in the application for United States Letters Patent filed in the United States Patent and Trademark Office, bearing attorney docket number I0168.70061US00, on September 18, 2001 under Serial No. 09/954,986 and entitled **ELECTRODEIONIZATION DEVICE AND METHODS OF USE**, and in and to said application and all divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said inventions; and in and to all original and reissued patents which have been or shall be issued in the United States and all foreign countries on said inventions including the right to apply for patent rights in each foreign country and all rights to priority;

Agree that said Assignee may apply for and receive Letters Patent for said inventions in its own name; and when requested, without charge to but at the expense of said Assignee, we agree to carry out in good faith the intent and purpose of this assignment, by executing all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said inventions, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to said Assignee all facts known to us relating to said inventions and the history thereof, and generally by doing everything reasonably possible which said Assignee shall consider desirable for aiding in securing and maintaining proper patent protection for said inventions and for vesting title to said inventions and all applications for patents and all patents on said inventions, in said Assignee;

Request the Honorable Commissioner of Patents and Trademarks to issue said Letters Patent to said Assignee; and

Covenant with said Assignee that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by us and that full right to convey the same as herein expressed is possessed by us/me.

---

Date9/27/04

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Joseph D. GiffordSTATE OF Massachusetts :  
COUNTY OF Middlesex :Subscribed and sworn to before me this 27 day of April.

SEAL



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Tracy Spurr

Notary Public

My Commission Expires 1-2-09

---

Date

Devendra Atnoor

STATE OF \_\_\_\_\_ :  
COUNTY OF \_\_\_\_\_ :

Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_.

SEAL

---

Notary Public

My Commission Expires \_\_\_\_\_